

1                   1 (currently amended).       An apparatus for use in analyzing video  
2 images, comprising:

3                   a video input signal providing a video signal to be analyzed, the video  
4 input signal including at least one of successive picture frames and fields  
5 containing a video picture that changes in time;

6                   a video processor operable to produce a display of information on a  
7 display device at least partly from the video input signal, wherein the display of  
8 information comprises a repetitively composed formatted display of images  
9 that is changed over time from one mode of display of information to an  
10 other mode of display of information, as the video input signal changes  
11 in time, wherein said modes of display of the information comprise  
12 different selections of display elements, each of the different selections  
13 comprising one or more of: between modes in which the formatted display  
14 contains one of:

15                   a full representation of the video picture contained in the video  
16 input signal, selectively presented so as to occupy at least a portion of a  
17 display area of the formatted display;

18                   a zoom image including an area of particular scrutiny in said  
19 video picture, selectively presented so as to occupy at least a portion of  
20 the display area of the formatted display;

21                   a report of video data characteristics of at least one point within  
22 said area of particular scrutiny;

23                   a subset of said full representation, said zoom image and said  
24 report; and,

25                   wherein a controller is coupled to the video processor and to at least  
26 one control input, wherein a user selects via the control input at least one  
27 selection criterion applied to the video signal to cause a change in the  
28 formatted display of images from said one mode to said other mode, and  
29 wherein the user selects via the control input a selection of the display

**elements to be included in the display composed by the video processor**  
**when the selection criterion is met.** ~~1, controls the nature of information~~  
~~displayed by the video processor in response to changes in the character of~~  
~~the input signal, including changing between said modes.~~

2(canceled).

3(previously presented). The apparatus of claim 1, wherein the video  
processor has a display mode wherein the full representation of the video  
picture, the zoom image and the report of said video data characteristics are  
presented at different parts of the display device and present progressively  
smaller parts of the area of particular scrutiny.

4(original). The apparatus of claim 3, wherein the report includes a  
tabular display of data respecting pixels at the area of particular scrutiny.

5(original). The apparatus of claim 4, wherein the tabular display of  
data includes sample location information and color sample data.

6(original). The apparatus of claim 5, wherein the tabular display of  
data includes a color swatch demonstrating the color sample data.

7(previously presented). The apparatus of claim 1, wherein the video  
input signal contains a digital video signal with successive picture frames and  
the video processor produces the formatted display repetitively for increments  
of at least one frame, from one of discrete sample data and discrete color  
state elements defining pixels in the video input signal.

8(previously presented). The apparatus of claim 1, wherein the video  
processor produces the formatted display for increments of at least one frame

3 from one of discrete sample data and discrete color state elements defining  
4 pixels in the video input signal.

1 9(previously presented). The apparatus of claim 1, wherein the video  
2 processor is operable to resize at least part of the video picture for  
3 presentation in part of an area of the formatted display that occupies less than  
4 a full area of the formatted display, and wherein resizing by the video  
5 processor includes at least one of recalculating pixel values, sampling pixel  
6 values and reading out selected pixel values.

1 10(previously presented). The apparatus of claim 1, wherein the  
2 control input is operable by a user manually to select from the video input  
3 signal an area to be the area of particular scrutiny, and wherein the video  
4 processor is operable simultaneously to present the video picture and the  
5 zoom image including the area of particular scrutiny, in different areas of said  
6 formatted display.

1 11(currently amended). The apparatus of claim 1, wherein the video  
2 processor allots the formatted display to accommodate said change in the  
3 formatted display of images from said one mode to said other mode ~~said~~  
4 ~~changeable selection.~~

1 Claim 12 is cancelled.

1 13(currently amended). The apparatus of claim ~~1, 12,~~ further  
2 wherein the controller and the video processor are operable to coordinate  
3 between automatic and manual selection of the area of particular scrutiny,  
4 wherein one of said manual selection and said automatic selection supersedes  
5 an other of said manual selection and said automatic selection for a limited  
6 period of time after said changing of the formatted display by the video  
7 processor when the ~~predetermined criteria are~~ selection criterion is met.

- 1           14(original). The apparatus of claim 13, wherein the selection criteria  
2       for said automatic selection include a color gamut value criterion having at  
3       least one threshold value such that a value meeting the threshold value  
4       criterion is selected for particular scrutiny.

Claims 15-25 have been canceled.

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